



MiTek USA, Inc. MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661 Telephone 916-755-3571

Re: 105781

Yavapai County 2 Bedroom

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Ballard-Mesa, Snow.

Pages or sheets covered by this seal: R64674233 thru R64674255 My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



December 9,2020

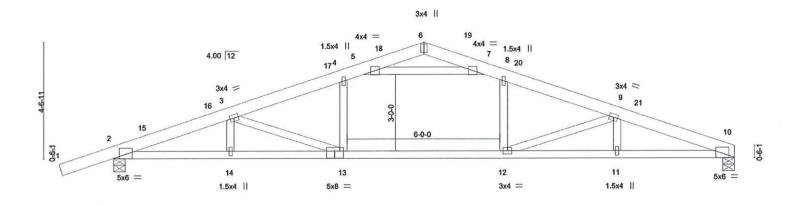
Dyer, Cecil

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

REVIEWED FOR DESIGN CRITERIA ONLY

Į.	Job	Truss	Truss Type		Qty	Ply	Yavapai County 2 Bedroom	+100 May 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 -
		1000000			1000	3855		R64674233
1	105781	A1	Common		4	1		
-		10000					Job Reference (optional)	
-	Ballard Truss LLC,	Snowflake, AZ - 85937,			8	.430 s Nov	30 2020 MiTek Industries, Inc. T	ue Dec 8 08:35:32 2020 Page 1
				ID:U?NW0	DCY_P_W3D	7wwZ7l1e	8yB4r?-Yj0HsGrmMNqkbscou91	YNyS9PfuLsmGdR6BQ84yB4X9
	-2-0-0	4-7-0	9-2-0	12-2-0	15-2-	0 ,	19-9-0	24-4-0
	2-0-0	4-7-0	4-7-0	3-0-0	3-0-0)	4-7-0	4-7-0

Scale = 1:43.3



1	4-7-0	9-2	-0	1	15-2-0			19-9-0	24	-4-0
1	4-7-0	4-7-	-0	1	6-0-0		1	4-7-0	4-	7-0
Plate Offsets (X,Y)	[2:0-2-10,Edge], [10:0-2-10	,Edge], [13:0-3-	12,0-3-4]							
OADING (psf) CLL 40.0 Roof Snow=40.0) CDL 10.0 GCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	BC (0.49 0.73 0.92 SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc -0.37 11-1 -0.47 11-1 0.11 1	2 >782	L/d 240 180 n/a	PLATES MT20 Weight: 107 lb	GRIP 185/144 FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

referenced standard ANSI/TPI 1.

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (siz

(size) 10=0-5-8, 2=0-5-8 Max Horz 2=99(LC 14)

Max Uplift 10=-108(LC 11), 2=-219(LC 10) Max Grav 10=1570(LC 22), 2=1816(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-3735/312, 3-4=-2893/242, 4-5=-2670/253, 5-6=-442/19, 6-7=-436/18,

7-8=-2665/259, 8-9=-2900/257, 9-10=-3866/382

BOT CHORD 2-14=-240/3418, 13-14=-240/3418, 12-13=-115/2682, 11-12=-306/3574, 10-11=-306/3574

WEBS 8-12=-4/426, 9-12=-1125/266, 4-13=0/385, 3-13=-982/225, 5-7=-2338/289

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-2-0, Exterior(2R) 12-2-0 to 15-8-0, Interior(1) 15-8-0 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

5) 150.0lb AC unit load placed on the top chord, 12-2-0 from left end, supported at two points, 3-0-0 apart.

6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 8) * This truss has been designed for a live load of 20,0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=108, 2=219.
 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



Structural wood sheathing directly applied or 4-4-10 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

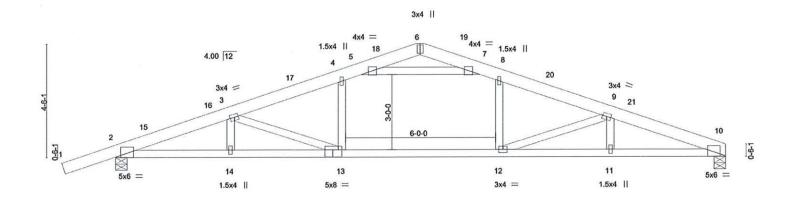
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITIP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty	Ply	Yavapai County 2 Bedroom	2010 00 40 00
			R64674234
2	1		
		Job Reference (optional)	
	8.430 s Nov	30 2020 MiTek Industries, Inc. Tue	Dec 8 08:35:33 2020 Page 1
ID:U?NWOcY_P_W3	3D7wwZ7I1e	8yB4r?-0wag3csO7hybC0B_StZnw	9?K73DabDemfmxzgWyB4X8
12-2-0 15	5-2-0	19-9-0	24-4-0
200 2	0.0	4-7-0	4-7-0
	ID:U?NWOcY_P_W 12-2-0 18	2 1 8.430 s Nov ID:U?NWOcY_P_W3D7wwZ711e	2 1 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-0wag3csO7hybC0B_StZnw 12-2-0 15-2-0 19-9-0

Scale = 1:44.0



	4-7-0	1	9-2-0	15-2-0			19-9-0	. 24	-4-0
	4-7-0	1 (4-7-0	6-0-0			4-7-0	4-	7-0
Plate Offsets (X,Y)	[2:0-2-10,Edge], [10:0-2-10),Edge], [13:0-3	-12,0-3-4]						
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.49 BC 0.73 WB 0.91 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.37 11-12 -0.47 11-12 0.11 10	l/defl >782 >606 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 107 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD **BOT CHORD**

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E BOT CHORD

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud **WEBS**

(size) 10=0-5-8, 2=0-5-8 REACTIONS.

Max Horz 2=99(LC 18)

Max Uplift 10=-108(LC 11), 2=-219(LC 10) Max Grav 10=1570(LC 22), 2=1816(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-3736/343, 3-4=-2892/261, 4-5=-2670/272, 5-6=-457/17, 6-7=-451/16,

7-8=-2664/280, 8-9=-2900/277, 9-10=-3866/394

BOT CHORD 2-14=-274/3418, 13-14=-274/3418, 12-13=-135/2681, 11-12=-318/3574, 10-11=-318/3574

WEBS 8-12=-4/426, 9-12=-1126/266, 4-13=0/385, 3-13=-983/225, 5-7=-2317/311

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-2-0, Exterior(2R) 12-2-0 to 17-1-6, Interior(1) 17-1-6 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) 150.0lb AC unit load placed on the top chord, 12-2-0 from left end, supported at two points, 3-0-0 apart.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 10=108, 2=219.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-5-8 oc purlins.

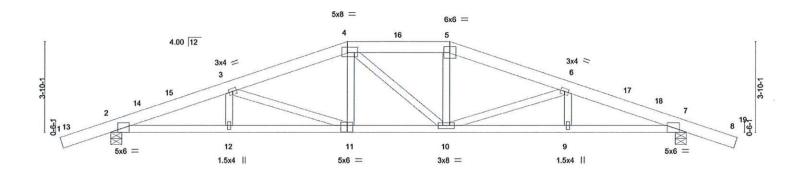
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of truss systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



-	Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	
-		Total Park	Louis		100		R64674235
- [105781	A3	Hip	1	1		
ı						Job Reference (optional)	
	Ballard Truss LLC,	Snowflake, AZ - 85937,			8.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8	08:35:34 2020 Page 1
				ID:U?NWOcY_P_W3	3D7wwZ7I1e8	yB4r?-U672Hxt0u_4SqAmA?a40SNXY7Tal	EKmDwuQgXDzyB4X7
	-2-0-0	5-0-0	10-0-0	14-4-0	19	-4-0 24-4-0	26-4-0
	2-0-0	5-0-0	5-0-0	4-4-0	5-	0-0 5-0-0	2-0-0

Scale = 1:46.6



H	5-0-0 5-0-0	10-	0-0	14-4-0 4-4-0	19-4-0		24-4-0 5-0-0	-1
Plate Offsets (X,Y)-								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 YES TPI2014	CSI. TC 0.28 BC 0.64 WB 0.57 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.21 11-12 >999 -0.30 11-12 >946 0.12 7 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 114 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 7=0-5-8

Max Horz 2=-75(LC 15)

Max Uplift 2=-308(LC 10), 7=-308(LC 11) Max Grav 2=2144(LC 35), 7=2144(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3920/591, 3-4=-2917/511, 4-5=-2678/539, 5-6=-2922/534, 6-7=-3918/611

BOT CHORD 2-12=-469/3538, 11-12=-469/3538, 10-11=-331/2673, 9-10=-505/3536, 7-9=-505/3536

WEBS 3-11=-933/154, 4-11=0/410, 5-10=-1/408, 6-10=-925/152, 4-10=-280/289

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2E) 10-0-0 to 14-4-0, Exterior(2R) 14-4-0 to 19-4-0, Interior(1) 19-4-0 to 26-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.

referenced standard ANSI/TPI 1.

- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=308, 7=308.
 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



Structural wood sheathing directly applied or 4-5-2 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

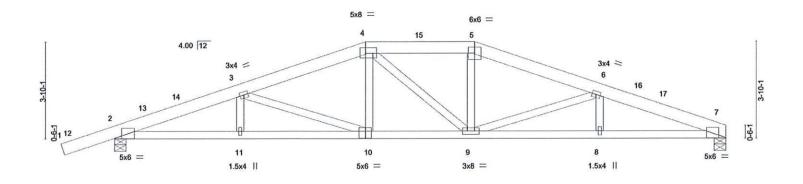
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	Shundi Jordan	
				32		R64674	4236
105781	A3A	Hip	1	1			
			25		Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,	in the second se	8	430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:35:35 2020 Page 1	1
Service company of the company of the company of	TO A SECURITION OF THE PROPERTY OF THE PROPERT		ID:U?NWOcY_P_	N3D7wwZ	7I1e8yB4r?-zlhQUHueflCJSKL	NZHbF?a4jjswh3Bx374Q4lPyB4X6	3
-2-0-0	5-0-0	10-0-0	14-4-0	1	19-4-0	24-4-0	
2-0-0	5-0-0	5-0-0	4-4-0	1	5-0-0	5-0-0	

Scale = 1:43.9



1	5-0-0	1	10-0-0	14-4-0	1	19-4-0	24-4-0	
	5-0-0	1	5-0-0	4-4-0	1	5-0-0	5-0-0	1
Plate Offsets (X,Y)	[2:0-3-6,Edge], [4:0-5-4,0-2	-12], [7:0-3-2,E	dge], [10:0-2-12,0-3-4	1]				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.29 BC 0.69 WB 0.67 Matrix-SH		-0.21 10-11 >	/defl L/d 999 240 926 180 n/a n/a	PLATES MT20 Weight: 110 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E

BOT CHORD

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud **WEBS**

REACTIONS. (size) 7=0-5-8, 2=0-5-8 Max Horz 2=86(LC 18)

Max Uplift 7=-198(LC 11), 2=-309(LC 10)

Max Grav 7=1782(LC 35), 2=2160(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3966/623, 3-4=-2967/547, 4-5=-2742/550, 5-6=-2992/545, 6-7=-4102/645

BOT CHORD 2-11=-535/3580, 10-11=-535/3580, 9-10=-394/2721, 8-9=-560/3757, 7-8=-560/3757

WEBS 3-10=-928/149, 4-10=0/410, 4-9=-274/305, 5-9=-18/445, 6-9=-1094/182

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2E) 10-0-0 to 14-4-0, Exterior(2R) 14-4-0 to 19-4-0, Interior(1) 19-4-0 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=198, 2=309,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-1-0 oc purlins.

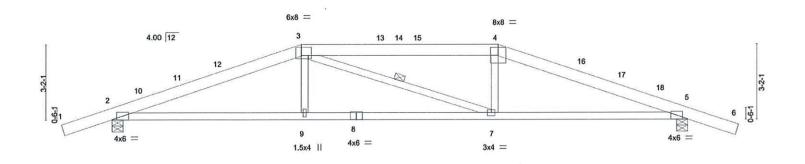
Rigid ceiling directly applied or 9-7-4 oc bracing.

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss was and bracing of truss systems, see ANSIIIPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	D04074007
105781	A4	Hip	1	1		R64674237
100.01			5		Job Reference (optional)	
Ballard Truss LLC, S	nowflake, AZ - 85937,				30 2020 MiTek Industries, Inc. Tue Dec 8 0	
		ID:U?N	NOcY_P_\	V3D7wwZ7	I1e8yB4r?-vhpAvzvvBvT1hdVlhidj4?9x5gcd	XDvMaOvBpHyB4X4
-2-0-0	8-0-0	16-4-0		1	24-4-0	26-4-0
2-0-0	8-0-0	8-4-0		,	8-0-0	2-0-0

Scale = 1:46.6



<u> </u>	8-0-0 8-0-0	1	16-4-0 8-4-0		-			-4-0 -0-0	-1
Plate Offsets (X,Y) [2	2:0-2-6,Edge], [3:0-5-4,0-4-4], [5:0-2-6,Ed	ge]							
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.81 BC 0.66 WB 0.13 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.33 0.11	(loc) 7-9 7-9 5	I/defl >999 >875 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 97 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E **BOT CHORD**

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except* **WEBS**

3-7: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 5=0-5-8

Max Horz 2=63(LC 18)

Max Uplift 2=-319(LC 10), 5=-319(LC 11) Max Grav 2=1932(LC 35), 5=1932(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3416/541, 3-4=-3101/557, 4-5=-3422/541 **BOT CHORD** 2-9=-395/3092, 7-9=-391/3101, 5-7=-410/3098

WEBS 3-9=0/327, 3-7=-366/374, 4-7=0/327

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-11-6, Interior(1) 12-11-6 to 16-4-0, Exterior(2R) 16-4-0 to 21-3-6, Interior(1) 21-3-6 to 26-4-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 2=319, 5=319.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-9-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

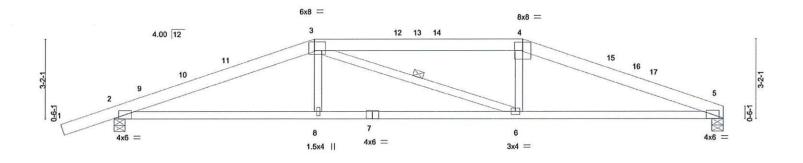
1 Row at midpt

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSITIP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



R64674238
)20 Page 1
kMkyB4X3

Scale = 1:44.1



1	8-0-0		1		16-4-0			T		24-4-0	
	8-0-0				8-4-0			- 1		8-0-0	1
Plate Offsets (X,Y) [2:	0-2-6,Edge], [3:0-5-4,0-4-	-4], [5:0-2-2,Edg	ge]								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.81 0.76 0.13 x-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.33 0.11	(loc) 5-6 5-6 5	l/defl >999 >863 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 93 lb	GRIP 185/144 FT = 10%

TOP CHORD

BOT CHORD

WEBS

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E **BOT CHORD**

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud *Except* **WEBS**

3-6: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 5=0-5-8, 2=0-5-8

Max Horz 2=73(LC 14)

Max Uplift 5=-209(LC 11), 2=-321(LC 10) Max Grav 5=1570(LC 35), 2=1948(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3429/573, 3-4=-3180/594, 4-5=-3470/586

BOT CHORD 2-8=-462/3104, 6-8=-457/3113, 5-6=-467/3177 WEBS 3-8=0/326, 3-6=-342/444, 4-6=0/326

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-11-6, Interior(1) 12-11-6 to 16-4-0, Exterior(2R) 16-4-0 to 21-3-6, Interior(1) 21-3-6 to 24-1-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=209, 2=321.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-9-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

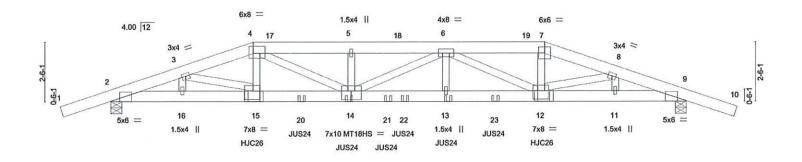
1 Row at midpt

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and fruss systems, see ANSIITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job				Truss			Truss T	уре			Qty	Ply	Yavapai County 2 Bedroom	i	The San Paris of Contract Cont
											0.000		100		R64674239
1057	81			A5			GIRDE	R			1	2			
													Job Reference (optional)		
Bal	lard T	russ LLC,	Sno	wflake,	AZ - 8	5937,						8.430 s Nov	30 2020 MiTek Industries, Ir	c. Tue Dec 8 08:	35:41 2020 Page 1
										ID:U	NWOcY_I	P_W3D7ww	Z7I1e8yB4r?-nS2hlLyPE8zT/	AFoXwYifErKkaHzl	kTt2xV0tOz3yB4X0
	1	-2-0-0	3-	0-0	1	6-0-0	1	10-1-15	1	14-2-1	1	18-4-0	21-4-0	24-4-0	26-4-0
		2-0-0	3-	0-0		3-0-0		4-1-15	1	4-0-3		4-1-15	3-0-0	3-0-0	2-0-0

Scale = 1:46.6



1	3-0-0 6-0-0	10-1-15	14-2-1	18-4-0	21-4-0	24-4-0	-3
· ·	3-0-0 3-0-0	4-1-15	4-0-3	4-1-15	3-0-0	3-0-0	1
Plate Offsets (X,Y)	[2:0-4-6,Edge], [4:0-6-0,0-3	3-8], [9:0-4-6,Edge], [12:0-4-	0,0-4-4], [14:0-5-0,0-4-8], [1	5:0-3-8,0-4-4]			
COADING (psf) FCLL 40.0 Roof Snow=40.0) FCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 CSI. 1.15 TC 1.15 BC NO WB PI2014 Matrix	0.33 Vert(LL) 0.65 Vert(CT) 0.76 Horz(CT)	in (loc) I/defl -0.36 13-14 >791 -0.48 13-14 >597 0.10 9 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 262 lb	GRIP 185/144 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 DF

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS.

(size) 2=0-5-8, 9=0-5-8

Max Horz 2=51(LC 46) Max Uplift 2=-653(LC 6), 9=-652(LC 7) Max Grav 2=3967(LC 17), 9=3961(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-8923/1210, 3-4=-10219/1447, 4-5=-12975/1838, 5-6=-12974/1838, 6-7=-9871/1410,

7-8=-10171/1437, 8-9=-8907/1212 BOT CHORD 2-16=-1105/8248, 15-16=-1105/8248, 1

BOT CHORD 2-16=-1105/8248, 15-16=-1105/8248, 14-15=-1328/9805, 13-14=-1759/13012,

12-13=-1759/13012, 11-12=-1063/8231, 9-11=-1063/8231 3-16=-495/136, 3-15=-227/1612, 4-15=-109/1169, 4-14=-516/3530, 5-14=-506/145,

WEBS 3-16=-495/136, 3-15=-227/1612, 4-15=-109/1169, 4-14=-516/3530, 5-14=-506/145, 6-13=-115/1067, 6-12=-3525/522, 7-12=-324/2612, 8-12=-218/1583, 8-11=-471/129

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed;
- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=653, 9=652.

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and per porty damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ASIITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Structural wood sheathing directly applied or 5-0-6 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661

Job	Truss	Truss Type	Qty Ply Yavapai County 2 Bedroom
105781	A5	GIRDER	R64674239
117-17-1	1.32	Sec. 00.000	Job Reference (optional)
Pollard Truce LLC	Spoudlake A7 85037		8 430 s Nov 30 2020 MiTek Industries Inc. Tue Dec. 8 08:35:41 2020 Page 2

ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-nS2hlLyPE8zTAFoXwYifErKkaHzkTt2xV0tOz3yB4X0

NOTES-

- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

 14) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 12-3-4 oc max. starting at 6-0-6 from the left end to 18-3-10 to connect truss(es) to front face of bottom chord.
- 15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 16-3-4 to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-7=-100, 7-10=-100, 2-9=-20

Concentrated Loads (lb)

Vert: 15=-945(F) 14=-407(F) 13=-407(F) 12=-945(F) 20=-407(F) 21=-407(F) 22=-407(F) 23=-407(F)

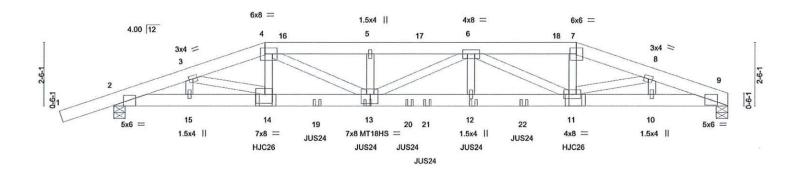
REVIEWED FOR DESIGN CRITERIA ONLY





Job		Truss		Truss Type	Qty	y Ply	Yavapai County	2 Bedroom	94-02000-00-00-00-00-00-00-00-00-00-00-00-
				ment the construction of					R64674240
105781		A5A		GIRDER	1	2			
							Job Reference (optional)	
Ballar	d Truss LLC,	Snowflake, AZ	- 85937,			8.430 s No	v 30 2020 MiTek I	ndustries, Inc. Tue Dec	8 08:35:43 2020 Page 1
					ID:U?NWOcY_	P_W3D7wwZ7I	1e8yB4r?-krASA0_	gmlDAPYyv1zk7KGP5	5L5gbxnEEzKMV1xyB4X_
	-2-0-0	3-0-0	6-0-0	10-1-15	14-2-1	- 1	18-4-0	21-4-0	24-4-0
	2-0-0	3-0-0	3-0-0	4-1-15	4-0-3		4-1-15	3-0-0	3-0-0

Scale = 1:43.7



ı	3-0-0	6-0-0	10-1-15	14-2-1	18-4-0	21-4-0	24-4-0
1	3-0-0	3-0-0	4-1-15	4-0-3	4-1-15	3-0-0	3-0-0
Plate Offsets (X,Y)	[2:0-4-10,Edge], [[4:0-5-12,0-3-0], [13:0	-3-12,0-4-8], [14:0-3-8,0-4	-4]			ı
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0		rip DOL 1.15 DOL 1.15 ess Incr NO	CSI. TC 0.31 BC 0.62 WB 0.72	Vert(CT) -0.	in (loc) I/defl L/d 35 12-13 >813 240 46 12-13 >624 180 09 9 n/a n/a	PLATES MT20 MT18HS	GRIP 185/144 185/144
BCDL 10.0	Code IF	RC2018/TPI2014	Matrix-SH			Weight: 255	lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x6 SPF 2100F 1.8E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 9=0-5-8, 2=0-5-8

Max Horz 2=66(LC 6)

Max Uplift 9=-607(LC 7), 2=-683(LC 6) Max Grav 9=3450(LC 18), 2=3867(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-8669/1287, 3-4=-9918/1539, 4-5=-12504/1990, 5-6=-12503/1990, 6-7=-9136/1652,

7-8=-9416/1687, 8-9=-8441/1494

BOT CHORD 2-15=-1192/8012, 14-15=-1192/8012, 13-14=-1431/9518, 12-13=-1992/12343,

11-12=-1992/12343, 10-11=-1365/7823, 9-10=-1365/7823

WEBS 3-15=-479/141, 3-14=-245/1558, 4-14=-108/1171, 4-13=-589/3325, 5-13=-508/145, 6-13=-48/341, 6-12=-148/994, 6-14=-3600/594, 7-14=-389/2386, 8-14=-368/1394

6-13=-48/311, 6-12=-148/994, 6-11=-3600/521, 7-11=-389/2386, 8-11=-358/1394,

8-10=-383/112

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed;

- 3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

9) All plates are MT20 plates unless otherwise indicated.

- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Structural wood sheathing directly applied or 5-1-14 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom R64674240
105781	A5A	GIRDER	1	2	Job Reference (optional)

Ballard Truss LLC,

Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:43 2020 Page 2 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-krASA0_gmlDAPYyv1zk7KGP5L5gbxnEEzKMV1xyB4X_

NOTES-

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 12-3-4 oc max. starting at 6-0-6 from the left end to 18-3-10 to connect truss(es) to back face of bottom chord.

15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 16-3-4 to connect truss(es) to back face of bottom chord.

16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-7=-100, 7-9=-100, 2-9=-20

Concentrated Loads (lb)

Vert: 14=-945(B) 13=-407(B) 12=-360(B) 11=-665(B) 19=-407(B) 20=-407(B) 21=-407(B) 22=-360(B)

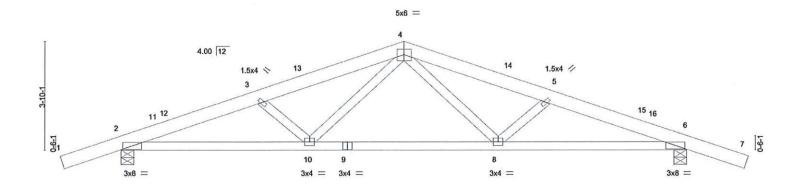
REVIEWED FOR DESIGN CRITERIA ONLY





Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	No other transfers of the
			1000	58.00	V	R64674241
105781	B1	Common	5	1		
100000000000000000000000000000000000000					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,		8	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8	08:35:44 2020 Page 1
			ID:U?NWOcY_P_W3D7	wwZ7l1e8y	/B4r?-C1kqNM?IX3L11iX5bgFMsUyGYV2H	gKWOB_52YNyB4Wz
-2-0-0	5-0-0	10-0-0	. 19	5-0-0	20-0-0	22-0-0
2-0-0	5-0-0	5-0-0	5	-0-0	5-0-0	2-0-0

Scale = 1:38.9



-	6-8-0 6-8-0				13-4-0 6-8-0		-			9-0-0 -8-0	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TB	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.28 0.47 0.33 x-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.11 -0.19 0.06	(loc) 8-10 8-10 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 87 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E **BOT CHORD**

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 6=0-5-8 Max Horz 2=75(LC 18)

Max Uplift 2=-260(LC 10), 6=-260(LC 11)

Max Grav 2=1521(LC 21), 6=1521(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2795/439, 3-4=-2294/377, 4-5=-2294/376, 5-6=-2795/438 **BOT CHORD** 2-10=-324/2525, 8-10=-181/1613, 6-8=-344/2525

WEBS 4-8=-52/766, 5-8=-626/176, 4-10=-51/766, 3-10=-626/175

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 13-6-0, Interior(1) 13-6-0 to 22-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=260, 6=260.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-4-1 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

\Lambda WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



J	ob		Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	
				900	- 396	100	390	R64674242
1	05781		B2	Hip	1	1	2700000	
L							Job Reference (optional)	
	Ballard T	russ LLC,	Snowflake, AZ - 85937,		8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8	3 08:35:45 2020 Page 1
					ID:U?NWOcY_P_W	3D7wwZ7I1	le8yB4r?-gDICbi?wINTufs6l9OmbPhUMzu	MePqhXQerc5qyB4Wy
	1	-2-0-0		1-0-0	12-0-0		20-0-0	22-0-0
	,	2-0-0	1	1-0-0	4-0-0		8-0-0	2-0-0

Scale = 1:39.6

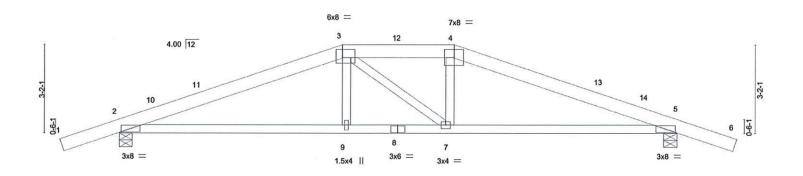


Plate Offsets (X,Y) [3:	8-0-0 8-0-0 0-5-4,0-3-8]			1	12-0-0 4-0-0	1			20-0-0 8-0-0		\dashv
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI	2-0-0 1.15 1.15 YES 2014	CSI. TC BC WB Matrix	0.62 0.59 0.14 -SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.26 0.07	(loc) 2-9 2-9 5	l/defl >999 >912 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 81 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E BOT CHORD

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud WEBS

REACTIONS. (size) 2=0-5-8, 5=0-5-8

Max Horz 2=-63(LC 15) Max Uplift 2=-274(LC 10), 5=-274(LC 11) Max Grav 2=1793(LC 35), 5=1793(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2524/476, 3-4=-2194/522, 4-5=-2527/499 2-9=-334/2184, 7-9=-331/2191, 5-7=-367/2187 TOP CHORD

BOT CHORD

WEBS 3-7=-314/321, 4-7=-47/293

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2E) 8-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 22-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=274, 5=274.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-3-8 oc purlins.

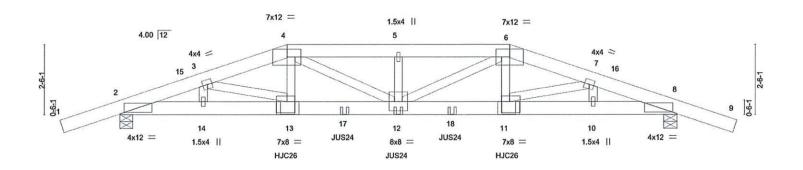
Rigid ceiling directly applied or 10-0-0 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss	Туре	Qty	Ply		Yavapai County 2 Bedroo	m	2.44
20.1.					1000	1 425		18. 222		R64674243
105781	B3		GIRD	ER	1		1			
								Job Reference (optional)	money (To Dygonous Control of C	
Ballard Truss LLC,	Snowflake, AZ	- 85937,				8.430 s l	Nov	30 2020 MiTek Industries,	Inc. Tue Dec 8	08:35:47 2020 Page 1
					ID:U?NWOcY	P_W3D7w	wZ	7I1e8yB4r?-ccQy?O1Aq_jc	uAGgGpp3U6ajG	i?EtdequyKj9iyB4Ww
-2-0-0	3-0-0	1	6-0-0	10-0-0	14-	0-0		17-0-0	20-0-0	22-0-0
2-0-0	3-0-0		3-0-0	4-0-0	4-1	-0		3-0-0	3-0-0	2-0-0

Scale = 1:39.6



H	3-0-0	6-0-0	10-0-0	14-0-0		17-0-0 3-0-0	20-0-0 3-0-0	Н
Plate Offsets (X,Y)	3-0-0 [11:0-3-8,0-4-12], [13:0-3-8	3-0-0 3,0-4-12]	4-0-0	4-0-0		3-0-0	3-0-0	2
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/I	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.51 BC 0.71 WB 0.62 Matrix-SH	DEFL. in Vert(LL) -0.33 Vert(CT) -0.44 Horz(CT) 0.10	(loc) I/defl 12 >718 12 >536 8 n/a	240 180	PLATES MT20 Weight: 108 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x6 SPF 2100F 1.8E

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud WEBS

REACTIONS. (size) 2=0-5-8, 8=0-5-8

Max Horz 2=-51(LC 47)

Max Uplift 2=-511(LC 6), 8=-511(LC 7) Max Grav 2=3137(LC 31), 8=3137(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6768/848, 3-4=-7487/1020, 4-5=-8237/1156, 5-6=-8237/1156, 6-7=-7487/1020, TOP CHORD

7-8=-6768/852

BOT CHORD 2-14=-769/6243, 13-14=-769/6243, 12-13=-921/7179, 11-12=-887/7179, 10-11=-736/6243,

8-10=-736/6243

WEBS 3-14=-384/117, 3-13=-179/1090, 4-13=-119/1226, 4-12=-221/1451, 5-12=-502/157,

6-12=-221/1451, 6-11=-120/1226, 7-11=-181/1090, 7-10=-384/116

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=511, 8=511,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 7-11-4 oc max. starting at 6-0-6 from the left end to 13-11-10 to connect truss(es) to front face of bottom chord.
- 12) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 1-11-4 oc max. starting at 8-0-12 from the left end to 11-11-4 to connect truss(es) to front face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.

Odition be boards SE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 2-9-2 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



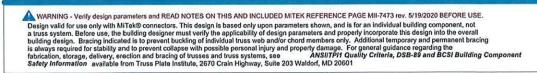
Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	201021010
105781	В3	GIRDER	1	1		R64674243
100101					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937	•		8.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 0	08:35:47 2020 Page 2

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:47 2020 Page 2 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-ccQy?O1Aq_jcuAGgGpp3U6ajGi?EtdequyKj9iyB4Ww

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-100, 4-6=-100, 6-9=-100, 2-8=-20
Concentrated Loads (lb)
Vert: 13=-945(F) 12=-407(F) 11=-945(F) 17=-407(F) 18=-407(F)

REVIEWED FOR DESIGN CRITERIA ONLY





MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661

Yavapai County 2 Bedroom Job Truss Truss Type Qty Ply R64674244 12 105781 J2 Jack-Open Job Reference (optional) Snowflake, AZ - 85937, Ballard Truss LLC, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:48 2020 Page 1 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-4o_KDk2oblrTWKrtqWKI1K6yE6W8cDez6c3Gh9yB4Wv 2-0-0 1-10-15 Scale = 1:9.3 3 5 4.00 12 2 1-1-11 9-4-0 0-6-1 5x6 =LOADING (psf) SPACING-**PLATES** GRIP 2-0-0 CSI. DEFL. L/d (loc) I/defl 40.0 1.15 TC Vert(LL) -0.00 >999 240 197/144 Plate Grip DOL 0.24 MT20 (Roof Snow=40.0) BC 0.02 -0.00 >999 180 Vert(CT) Lumber DOL 1.15 TCDL 10.0 WB 0.00 Horz(CT) -0.00 3 Rep Stress Incr YES n/a n/a BCLL 0.0 FT = 10% Code IRC2018/TPI2014 Matrix-P Weight: 10 lb BCDL 10.0 **BRACING-**

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E 2x4 SPF 1650F 1.5E **BOT CHORD**

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-10-15 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=66(LC 10)

Max Uplift 3=-199(LC 20), 2=-168(LC 10)

Max Grav 3=25(LC 10), 2=636(LC 20), 4=37(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 3=199, 2=168,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Yavapai County 2 Bedroom R64674245 105781 10 Jack-Open Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:48 2020 Page 1 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-4o_KDk2oblrTWKrtqWKI1K6xd6VvcDez6c3Gh9yB4Wv Ballard Truss LLC, Snowflake, AZ - 85937, 3-10-15 2-0-0 3-10-15 Scale = 1:12.6 3 4.00 12 -9-11 1-3-6 0-6-1 4x4 = 3-10-15 Plate Offsets (X,Y)-- [2:0-3-6,Edge] LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. in (loc) I/defl L/d TCLL 40.0 Plate Grip DOL TC 0.28 Vert(LL) -0.01 >999 197/144 1.15 2-4 240 **MT20** (Roof Snow=40.0) Lumber DOL 1.15 BC -0.02 180 0.10 Vert(CT) 2-4 >999 TCDL 10.0 Rep Stress Incr WB 0.00 YES Horz(CT) -0.00 3 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 16 lb FT = 10% BCDL 10.0 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical

Max Horz 2=94(LC 10)

Max Uplift 3=-96(LC 20), 2=-164(LC 10)

Max Grav 3=154(LC 21), 2=726(LC 21), 4=72(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (|t=lb) 2=164.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty Ply Yavapai County 2 Bedroom R64674246 105781 J4A Jack-Open Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:49 2020 Page 1 ID:U?NWOcY_P_W3D7wxZ7I1e8yB4r?-Y?XjQ42QMbzK7TP3OErXZX/6NWs_Lgu7LGppEbyB4Wu Ballard Truss LLC. Snowflake, AZ - 85937, 3-10-15 2-0-0 3-10-15 Scale = 1:12.6 3 4.00 12 1-6-11 1-3-6 0-6-1 4x4 = Plate Offsets (X,Y)-- [2:0-3-6,Edge] LOADING (psf) SPACING-DEFL. PLATES GRIP 2-0-0 CSI. in I/defl L/d (loc) TCLL 40.0 Plate Grip DOL TC 0.28 Vert(LL) -0.00 >999 197/144 1.15 2-5 240 MT20 (Roof Snow=40.0) Lumber DOL 1.15 BC 0.05 -0.00 >999 180 Vert(CT) 2-5 TCDL 10.0 Rep Stress Incr WB 0.00 Horz(CT) -0.00 YES 3 n/a n/a BCLL 0.0 FT = 10% Code IRC2018/TPI2014 Matrix-P Weight: 16 lb BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x6 SPF 1650F 1.5E TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins. **BOT CHORD** 2x4 SPF 1650F 1.5E **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical, 5=0-5-8

Max Horz 2=94(LC 10)

Max Uplift 3=-96(LC 20), 2=-172(LC 10), 4=-48(LC 5)

Max Grav 3=154(LC 21), 2=714(LC 21), 5=146(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=172.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and perperty damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPII Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Type Yayapai County 2 Bedroom Truss Qty R64674247 105781 J4B Jack-Open Ballard Truss LLC. Snowflake, AZ - 85937, 3-10-15 Scale = 1:11.8 2 4.00 12 1-9-11 3x4 = 3-10-15 3-10-15 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 I/defl L/d in (loc) 40.0 TCLL Plate Grip DOL 1.15 TC Vert(LL) -0.01 >999 240 197/144 0.14 1-3 MT20 (Roof Snow=40.0) BC Lumber DOL 1.15 0.10 Vert(CT) -0.02 1-3 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 2 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 12 lb FT = 10% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD**

2x4 SPF 1650F 1.5E

(size) 1=0-5-8, 2=Mechanical, 3=Mechanical

Max Horz 1=61(LC 10)

Max Uplift 1=-23(LC 10), 2=-68(LC 10)

Max Grav 1=282(LC 20), 2=246(LC 20), 3=72(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; P(=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.

 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors. 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Yayapai County 2 Bedroom Qty Ply R64674248 105781 **J**6 Jack-Closed 18 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:50 2020 Page 1 Snowflake, AZ - 85937, Ballard Truss LLC. ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-0B55eQ337v5Bld_FxxMm6lCH1v95478GavYNm1yB4Wt 2-0-0 Scale = 1:17.0 3x4 || 4.00 12 0-6-1 6 3x4 || 5 6-0-0 Plate Offsets (X,Y)-- [2:0-3-10,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP in (loc) I/defl 40.0 TCLL Plate Grip DOL 185/144 1.15 TC 0.28 Vert(LL) -0.05 2-6 >999 240 MT20 (Roof Snow=40.0) Lumber DOL 1.15 BC 0.25 Vert(CT) -0.10 2-6 >664 180 TCDI 10.0 WB Rep Stress Incr YES 0.00 Horz(CT) 0.00 6 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Weight: 24 lb FT = 10% Matrix-P BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 6=Mechanical, 2=0-5-8

Max Horz 2=113(LC 11)

Max Uplift 6=-53(LC 14), 2=-172(LC 10) Max Grav 6=427(LC 21), 2=839(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-6=-366/245

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=172.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Job Yavapai County 2 Bedroom Truss Truss Type Qty Ply R64674249 105781 J6A Jack-Closed Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:51 2020 Page 1
ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-VNfTrl4huDD2NnZSVft?eykSnJYTpaDQoZlwlTyB4Ws Ballard Truss LLC, Snowflake, AZ - 85937, 2-0-0 Scale = 1:16.8 4x4 = 3 4.00 12 0-6-1 3x4 || 5 Plate Offsets (X,Y)-- [2:0-3-10,Edge] LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 I/defl in (loc) TCLL 40.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.00 2-7 >999 240 MT20 185/144 (Roof Snow=40.0) Lumber DOL 1.15 BC 0.05 Vert(CT) -0.00 >999 180 2-7 TCDL 10.0 WB Rep Stress Incr YES 0.01 Horz(CT) -0.00 6 n/a n/a BCLL 0.0 Code IRC2018/TPI2014 FT = 10% Matrix-P Weight: 29 lb BCDL 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 6=Mechanical, 2=0-5-8, 7=0-5-8

Max Horz 2=113(LC 11)

Max Uplift 6=-76(LC 14), 2=-194(LC 10)

Max Grav 6=380(LC 21), 2=794(LC 21), 7=139(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-6=-353/250

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=194.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

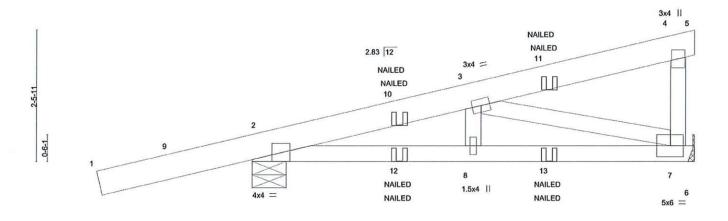


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansitrpt1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job Qty Yayapai County 2 Bedroom Truss Truss Type R64674250 105781 JC1 MONO GIRDER Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:52 2020 Page 1 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-zZDr355JfWLv_x8e3MOEBAHYFjrOYzJZ1D1UqwyB4Wr Snowflake, AZ - 85937, Ballard Truss LLC. 4-2-3 2-9-15 4-2-2

Scale = 1:20.8



		1		4-2-3 4-2-3			1			·4-5 ·2-2	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matri	0.62 0.20 0.28 ix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.01	(loc) 8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 39 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud **WEBS**

REACTIONS. (size) 7=Mechanical, 2=0-7-12

Max Horz 2=106(LC 7) Max Uplift 7=-47(LC 10), 2=-202(LC 6) Max Grav 7=567(LC 17), 2=1014(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-862/253, 4-7=-331/73

BOT CHORD 2-8=-320/725, 7-8=-320/725

WEBS 3-7=-754/333

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=202.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-100, 4-5=-100, 2-6=-20

Continued on page 2

🔼 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 oseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom R64674250
105781	JC1	MONO GIRDER	5	1	K04074250
		10.25 to 0.11400 4 20.05			Job Reference (optional)

Ballard Truss LLC,

Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:52 2020 Page 2 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-zZDr355JfWLv_x8e3MOEBAHYFjrOYzJZ1D1UqwyB4Wr

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 10=68(F=34, B=34) 11=-38(F=-19, B=-19) 13=-16(F=-8, B=-8)

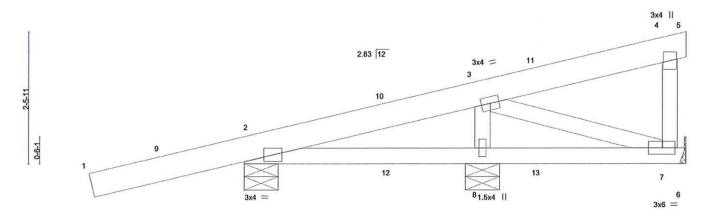
REVIEWED FOR DESIGN CRITERIA ONLY

MiTek



Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	
		3960027			**	R64674251
105781	JC2	MONO GIRDER	1	1	ANTONO DE CONTRA DE	
					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,	-	3	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:	53 2020 Page 1
			ID:U?NWOcY_P_W3D	7wwZ7l1e8	yB4r?-RmnDGR6xQqUmc5jqd3wTkNqjE7C5HTyj	Gtn1NMyB4Wq
1	-2-9-15	T.	4-6-1	1	8-4-5	
	2-9-15		4-6-1	1	3-10-4	

Scale = 1:20.8



	l-	4-6-1 4-6-1		-1		8-4-5 3-10-4	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.60 BC 0.10 WB 0.12 Matrix-P	DEFL. in Vert(LL) -0.01 Vert(CT) -0.02 Horz(CT) -0.00	(loc) 2-8 2-8 7	>999 24 >999 18	/d PLATES 40 MT20 80 b/a Weight: 38 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

> (size) 7=Mechanical, 2=0-7-12, 8=0-7-12 Max Horz 2=106(LC 7)

Max Uplift 7=-73(LC 6), 2=-220(LC 6), 8=-228(LC 16)

Max Grav 7=334(LC 31), 2=896(LC 16), 8=478(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 4-7=-314/78

WEBS 3-8=-419/287

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=220, 8=228.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 231 lb up at 2-9-8, 82 lb down and 231 lb up at 2-9-8, and 184 lb down and 81 lb up at 5-7-7, and 98 lb down and 52 lb up at 5-7-7 on top chord, and 2 lb down at 2-9-8, 2 lb down at 2-9-8, and 19 lb down at 5-7-7, and 52 lb up at 5-7-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2

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Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 seville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom R6467425
105781	JC2	MONO GIRDER	1	1	Job Reference (optional)

Ballard Truss LLC,

Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:53 2020 Page 2 ID:U?NWOcY_P_W3D7wwZ7I1e8yB4r?-RmnDGR6xQqUmc5jqd3wTkNqjE7C5HTyjGtn1NMyB4Wq

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-4=-100, 4-5=-100, 2-6=-20

Concentrated Loads (lb)

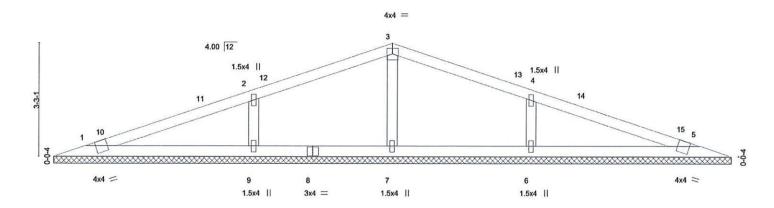
Vert: 10=68(F=34, B=34) 11=-124(F=-19, B=-105) 13=45(F=52, B=-8)

REVIEWED FOR DESIGN CRITERIA ONLY

MiTek



Scale: 3/8"=1"



-			19-6-4						
Plate Offsets (X,Y) [4:0-	0-0,0-0-0]		10-0-4						
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.44 BC 0.22 WB 0.17 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 51 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 19-6-4.

(lb) - Max Horz 1=55(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=-134(LC 14), 6=-134(LC 15)

Max Grav All reactions 250 lb or less at joint(s) except 1=292(LC 20), 5=292(LC 21), 7=353(LC 1), 9=879(LC 20),

6=880(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 3-7=-307/69, 2-9=-730/197, 4-6=-730/197

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-5-5, Interior(1) 4-5-5 to 9-9-2, Exterior(2R) 9-9-2 to 13-3-2, Interior(1) 13-3-2 to 18-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=134, 6=134.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

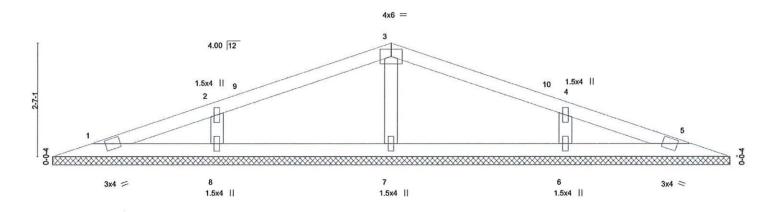
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSIMPPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty		Ply	Yavapai County 2 Bedroom	
		The same of the sa				R6467425	3
105781	V2	DROP GABLE	1		1	Herton Bridge Bridge	
		200 Sept. 400 Sept. 600 Se				Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,			8.	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:35:55 2020 Page 1	
**************************************	NOTES AND THE STREET, NOTES AND ADDRESS OF THE STREET,		ID:U?NWOcY	P W3	D7wwZ7I	le8yB4r?-N8v_h77BxRkTrOtDkUyxpov8swuzINO?jBG8RFyB4Wo	
		7-9-2	_	-		15-6-4	
		7-9-2				7-9-2	

Scale = 1:25.3



T.					15-6-4						
Plate Offsets (X,Y) [4:0	0-0-0,0-0-0]				15-6-4						
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri	0.28 0.08 0.13 x-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	I/defI n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-6-4.

(lb) - Max Horz 1=-43(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 7 except 8=-104(LC 14), 6=-104(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=435(LC 1), 8=668(LC 20), 6=668(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS

3-7=-355/117, 2-8=-582/198, 4-6=-583/198

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-5-5, Interior(1) 4-5-5 to 7-9-2, Exterior(2R) 7-9-2 to 11-3-2, Interior(1) 11-3-2 to 14-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 7 except (it=lb) 8=104, 6=104.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

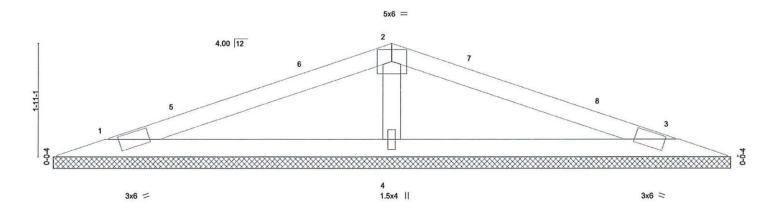


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Yavapai County 2 Bedroom Job Truss Truss Type Qty R64674254 105781 V3 DROP GABLE Job Reference (optional) 8.430 s Nov 30 2020 MTek Industries, Inc. Tue Dec 8 08:35:55 2020 Page 1 ID:U?NWOcY_P_W3D7wwZ711e8yB4r?-N8v_h77BxRkTrOtDkUyxpov57wq5lNk?jBG8RFyB4Wo Ballard Truss LLC. Snowflake, AZ - 85937,

Scale = 1:18.8



11-6-4									
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.45 BC 0.32 WB 0.11 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

11-6-4

LUMBER-TOP CHORD

2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

OTHERS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 1=11-6-4, 3=11-6-4, 4=11-6-4

Max Horz 1=30(LC 14)

Max Uplift 1=-45(LC 10), 3=-48(LC 15), 4=-59(LC 10)

Max Grav 1=351(LC 20), 3=351(LC 21), 4=661(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-4=-468/252

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-11-5 to 4-5-5, Interior(1) 4-5-5 to 5-9-2, Exterior(2R) 5-9-2 to 9-3-2, Interior(1) 9-3-2 to 10-6-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

 3) Unbalanced snow loads have been considered for this design.

- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

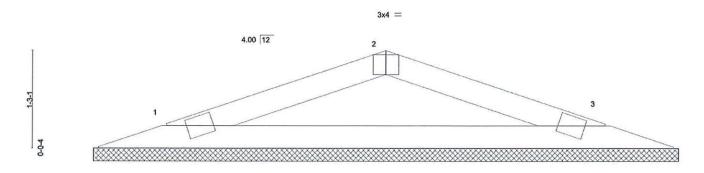
🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and fruss systems, see ANSIIP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 2 Bedroom	BATTA OR AND THAT BY THE Y
105781	V4	DROP GABLE	1	1	**	R64674255
		TO A CONTRACT OF THE PARTY OF T			Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,			8.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:	35:56 2020 Page 1
			ID:U?NWOcY_P	W3D7wwZ	7I1e8yB4r?-rLSMuT8pilsKTYSPICTAL0SKfKB0	Urd9yr?hzhyB4Wn
		3-9-2	1		7-6-4	1
1		3-9-2			3-9-2	

Scale = 1:14.2

20.0



3x4 =

3x4 =

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

					7-6-4						
					7-6-4						
Plate Offsets (X,Y) [2:0)-2-0,Edge]										
OADING (psf) CLL 40.0 Roof Snow=40.0) CDL 10.0 SCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP	2-0-0 1.15 1.15 YES	CSI. TC BC WB Matri	0.21 0.28 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 3	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 15 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

(size) 1=7-6-4, 3=7-6-4

Max Horz 1=18(LC 18) Max Uplift 1=-44(LC 10), 3=-44(LC 11) Max Grav 1=366(LC 20), 3=366(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-476/356, 2-3=-476/361

BOT CHORD 1-3=-296/417

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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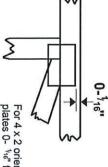


Symbols

PLATE LOCATION AND ORIENTATION



Apply plates to both sides of truss offsets are indicated. Center plate on joint unless x, y and fully embed teeth. Dimensions are in ft-in-sixteenths.



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

8

6

G

5

This symbol indicates the

required direction of slots in connector plates

*Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

LATERAL BRACING LOCATION



if indicated. Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing

BEARING



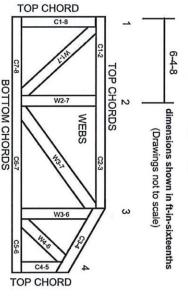
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

ANSI/TPI1: Industry Standards:

National Design Specification for Metal Building Component Safety Information, Guide to Good Practice for Handling, Design Standard for Bracing. Plate Connected Wood Truss Construction.

Connected Wood Trusses. Installing & Bracing of Metal Plate DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ER-3907, ESR-2362, ESR-1397, ESR-3282 ESR-1311, ESR-1352, ESR1988

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1 established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

- -ailure to Follow Could Cause.

 Damage or Personal Injury

 1. Additional stability bracing for truss system, e.g., diagonal or X-bracing, is always required. See BCSL-Truss bracing must be designed by an engineer. The Could be truss spacing, individual lateral braces them Sives O wide truss spacing, or alternative Tor I
- stack materials on inadequately braced trusses
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.

